



1049 - 28th Street SE
Grand Rapids, MI 49508
Ph: 616/248-4900
Toll Free: 800/362-LABS
Fax: 616/248-4904

March 28, 2011

Bryan Rose
Rose & Westra Inc
4328 - 3 Mile Rd, NW
Suite 200
Walker, MI 49534

TEL: (616) 791-7100
FAX (616) 791-9263
RE: 0003.02990.0

Dear Bryan Rose:

Order No.: 1103129

BIO-CHEM Laboratories, Inc. received 1 sample on 3/24/2011 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Please note that unless otherwise instructed, residual samples will be held for sixty (60) days from the original report date. At that time, all non-hazardous samples will be disposed of in accordance with federal, state and local regulations and ordinances, and hazardous samples shall be returned to you. Please contact the laboratory within thirty (30) days if other arrangements for sample retention need to be made.

Sincerely,

Cindy Euwema
Office Manager



Chain of Custody

11 03129
 1049 28th Street SE • Grand Rapids, MI 49508
 Ph: (616) 248-4900 • Toll Free: 800-362-LABS
 Fax: (616) 248-4904

Project Number 0003.02990.0

Firm Name <u>Rose A. Weir</u>		Turn around time <u>48 Hr</u>		Date <u>3/24/2011</u>		Date Due	
Firm Address <u>4328 3 mile SW 200</u>		Project Name		Analysis Desired (One per line) <u>TSS</u> <u>T. CF</u> <u>NH3</u> <u>LOD</u>		Remarks	
City, State, Zip <u>Lea ME 49534</u>		State Samples Taken From <u>ME</u>					
Phone <u>616 791 7100</u>		Contact Person <u>Bryan Rose</u>					
Fax <u>616 791 9263</u>							
Item No	Lab I.D.	Client Sample Number	Date Taken	Time Taken	Sample Description (sample type: water, soil, other)	Number of Containers	
1		<u>FC-SW</u>	<u>3/24</u>	<u>1400</u>	<u>Water</u>	<u>3</u>	<u>X X X X</u>
2							
3							
4							
5							
6							
7							
8							
9							
10							

Released by	Received by	Date	Time	Laboratory use only
<u>Todd A. Weir</u>	<u>Todd A. Weir</u>	<u>3/24</u>	<u>1450</u>	<input checked="" type="checkbox"/> Blue Ice _____°
<u>Todd A. Weir</u>	<u>Cindy E. Weir</u>	<u>3/24/11</u>	<u>3:25</u>	<input type="checkbox"/> Regular Ice
				<input type="checkbox"/> No Coolant

Prop 064

BIO-CHEM Laboratories, Inc.

Date: 28-Mar-11

CLIENT: Rose & Westra Inc
Project: 0003.02990.0
Lab Order: 1103129

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received
1103129-01A	FC-SW	Aqueous	3/24/2011	3/24/2011

BIO-CHEM Laboratories, Inc.

Date: 28-Mar-11

CLIENT: Rose & Westra Inc
Project: 0003.02990.0
Lab Order: 1103129

CASE NARRATIVE

Samples are routinely analyzed using methods outlined in the following references:

- (SW) Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Ed.
- (E) Methods for Chemical Analysis of Water and Wastes, EPA-600/4-79-020.
- (A) Standard Methods for the Examination of Water and Wastewater, APHA, 18th Ed.
- (D) Annual Book of ASTM Standards.

Specific methods utilized for this project are provided in the analytical report and are identified by the reference document abbreviation () followed by the method number.

All QA/QC and sample analyses met method, laboratory and/or regulatory data quality objectives unless otherwise specified below.

No data qualifications required.

BIO-CHEM Laboratories, Inc.

Date: 3/28/2011

ANALYTICAL REPORT

CLIENT: Rose & Westra Inc

Project Number: 0003.02990.0

Lab Order: 1103129

Client Sample ID: FC-SW

Project: 0003.02990.0

Collection Date: 3/24/2011

Lab Sample ID: 1103129-01A

Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
Total Metal(s) by ICP								
1. Chromium	SW6010B	< 10		10	µg/L	1	RHS	3/25/2011
Ammonia Nitrogen								
1. Nitrogen, Ammonia (As N)	E350.3	0.89		0.050	mg/L	2	KLM	3/28/2011
Chemical Oxygen Demand								
1. Chemical Oxygen Demand	SM5220D	28		5.0	mg/L	1	KLM	3/25/2011
Suspended Solids (Gravimetric)								
1. Suspended Solids (Residue, Non-Filterable)	E160.2	34		1.0	mg/L	1	KLM	3/25/2011

Definitions: PQL - Practical Quantitation Limit
DF - Dilution Factor

Qualifiers (Q):

J - Detected below PQL but above MDL: Estimated
S - Spike Recovery Outside Acceptance Limits
B - Analyte detected in associated Method Blank
N - See case narrative for explanation

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Note: The sample results reported are based on the sample aliquot(s) tested.

1 of 1

Lab Order: 1103129
Client: Rose & Westra Inc
Project: 0003.02990.0

ANALYTICAL DETAIL REPORT

Sample ID	Client Sample ID	Matrix	Test Name	Date Sampled	TCLP/SPLP Date	Prep Date	QC Batch	Analysis Date	Analytical Batch
1103129-01A	FC-SW	Aqueous	Ammonia Nitrogen	3/24/2011		3/28/2011	R68233	3/28/2011	POTENTIAL_110328A
	FC-SW	Aqueous	Chemical Oxygen Demand	3/24/2011			R68224	3/25/2011	SPEC_A_110325B
	FC-SW	Aqueous	Suspended Solids (Gravimetric)	3/24/2011			R68222	3/25/2011	GRAVIMETRIC_110325A
	FC-SW	Aqueous	Total Metal(s) by ICP	3/24/2011		3/24/2011	31712	3/25/2011	MTL_G_ICP_110325A



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Project Number 0003.02990.0

Firm Name Rose A. Weir			Turn around time 48 Hr			Date 3/24/2011		Date Due				
Firm Address 4328 3 mile SW 200			Project Name			Analysis Desired (One per line) TSS T-CC NH3 COD						
City, State, Zip Lan ME 49534			State Samples Taken From ME									
Phone 616 791 7100			Fax 616 791 9263									
Contact Person Bryan Rose												
Item No	Lab I.D.	Client Sample Number	Date Taken	Time Taken	Sample Description (sample type: water, soil, other)	Number of Containers					Remarks	
1		EC-SW	3/24	1400	Water	3	X	X	X	X		
2												
3												
4												
5												
6												
7												
8												
9												
10												
Released by 			Received by Todd A. Rose			Date 3/24	Time 1450	Laboratory use only <input checked="" type="checkbox"/> Blue Ice ____° <input type="checkbox"/> Regular Ice <input type="checkbox"/> No Coolant 				
Todd A. Rose			Cindy Sussman			3/24/11	3:25					

BIO-CHEM Laboratories, Inc.

Date: 28-Mar-11

CLIENT: Rose & Westra Inc
Project: 0003.02990.0
Lab Order: 1103129

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received
1103129-01A	FC-SW	Aqueous	3/24/2011	3/24/2011

BIO-CHEM Laboratories, Inc.

Date: 28-Mar-11

CLIENT: Rose & Westra Inc
Project: 0003.02990.0
Lab Order: 1103129

CASE NARRATIVE

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BIO-CHEM Laboratories, Inc.

Date: 3/28/2011

ANALYTICAL REPORT

CLIENT: Rose & Westra Inc

Project Number: 0003.02990.0

Lab Order: 1103129

Client Sample ID: FC-SW

Project: 0003.02990.0

Collection Date: 3/24/2011

Lab Sample ID: 1103129-01A

Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
Total Metal(s) by ICP								
1. Chromium	SW6010B	< 10		10	µg/L	1	RHS	3/25/2011
Ammonia Nitrogen								
1. Nitrogen, Ammonia (As N)	E350.3	0.89		0.050	mg/L	2	KLM	3/28/2011
Chemical Oxygen Demand								
1. Chemical Oxygen Demand	SM5220D	28		5.0	mg/L	1	KLM	3/25/2011
Suspended Solids (Gravimetric)								
1. Suspended Solids (Residue, Non-Filterable)	E160.2	34		1.0	mg/L	1	KLM	3/25/2011

Definitions: PQL - Practical Quantitation Limit
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Qualifiers (Q):

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Lab Order: 1103129
Client: Rose & Westra Inc
Project: 0003.02990.0

ANALYTICAL DETAIL REPORT

Sample ID	Client Sample ID	Matrix	Test Name	Date Sampled	TCLP/SPLP Date	Prep Date	QC Batch	Analysis Date	Analytical Batch
1103129-01A	FC-SW	Aqueous	Ammonia Nitrogen	3/24/2011		3/28/2011	R68233	3/28/2011	POTENTIAL_110328A
	FC-SW	Aqueous	Chemical Oxygen Demand	3/24/2011			R68224	3/25/2011	SPEC_A_110325B
	FC-SW	Aqueous	Suspended Solids (Gravimetric)	3/24/2011			R68222	3/25/2011	GRAVIMETRIC_110325A
	FC-SW	Aqueous	Total Metal(s) by ICP	3/24/2011		3/24/2011	31712	3/25/2011	MTL_G_ICP_110325A



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Firm Name Rose A. Weir					Turn around time 48 Hr					Project Number 0003.02990.0					Date 3/24/2011					Date Due				
Firm Address 4328 3 mile SW 200					Project Name					Analysis Desired (One per line) TSS T. LC NH3 LOD														
City, State, Zip 60 ME 49534					State Samples Taken From ME																			
Phone 616 791 7100					Fax 616 791 9263																			
Item No	Lab I.D.	Client Sample Number	Date Taken	Time Taken	Sample Description (sample type: water, soil, other)	Number of Containers	Remarks																	
1		EC-SW	3/24	1400	Water	3	X	X	X	X														
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Released by Todd A. Rose					Received by Todd A. Rose					Date 3/24		Time 1450		Laboratory use only <input checked="" type="checkbox"/> Blue Ice _____° <input type="checkbox"/> Regular Ice <input type="checkbox"/> No Coolant Prep OK										
					Cindy Enneking					3/24/11		3:25												

BIO-CHEM Laboratories, Inc.

Date: 28-Mar-11

CLIENT: Rose & Westra Inc
Project: 0003.02990.0
Lab Order: 1103129

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received
1103129-01A	FC-SW	Aqueous	3/24/2011	3/24/2011

BIO-CHEM Laboratories, Inc.

Date: 28-Mar-11

CLIENT: Rose & Westra Inc

Project: 0003.02990.0

Lab Order: 1103129

CASE NARRATIVE

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All QA/QC and sample analyses met method, laboratory and/or regulatory data quality objectives unless otherwise specified below.

No data qualifications required.

BIO-CHEM Laboratories, Inc.

Date: 3/28/2011

ANALYTICAL REPORT**CLIENT:** Rose & Westra Inc**Project Number:** 0003.02990.0**Lab Order:** 1103129**Client Sample ID:** FC-SW**Project:** 0003.02990.0**Collection Date:** 3/24/2011**Lab Sample ID:** 1103129-01A**Matrix:** AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
Total Metal(s) by ICP								
1. Chromium	SW6010B	< 10		10	µg/L	1	RHS	3/25/2011
Ammonia Nitrogen								
1. Nitrogen, Ammonia (As N)	E350.3	0.89		0.050	mg/L	2	KLM	3/28/2011
Chemical Oxygen Demand								
1. Chemical Oxygen Demand	SM5220D	28		5.0	mg/L	1	KLM	3/25/2011
Suspended Solids (Gravimetric)								
1. Suspended Solids (Residue, Non-Filterable)	E160.2	34		1.0	mg/L	1	KLM	3/25/2011

Definitions: PQL - Practical Quantitation Limit
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Lab Order: 1103129
 Client: Rose & Westra Inc
 Project: 0003.02990.0

ANALYTICAL DETAIL REPORT

Sample ID	Client Sample ID	Matrix	Test Name	Date Sampled	TCLP/SPLP Date	Prep Date	QC Batch	Analysis Date	Analytical Batch
1103129-01A	FC-SW	Aqueous	Ammonia Nitrogen	3/24/2011		3/28/2011	R68233	3/28/2011	POTENTIAL_110328A
	FC-SW	Aqueous	Chemical Oxygen Demand	3/24/2011			R68224	3/25/2011	SPEC_A_110325B
	FC-SW	Aqueous	Suspended Solids (Gravimetric)	3/24/2011			R68222	3/25/2011	GRAVIMETRIC_110325A
	FC-SW	Aqueous	Total Metal(s) by ICP	3/24/2011		3/24/2011	31712	3/25/2011	MTL_G_ICP_110325A



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Project Number 0003.02990.0

Firm Name Rose A. Weir				Turn around time 48 Hr				Date 3/24/2011		Date Due		
Firm Address 4328 3 mile SW 200				Project Name				Analysis Desired (One per line) TSS T-TC NH3 COD				
City, State, Zip Lan ME 49534				State Samples Taken From ME								
Phone 616 791 7100				Fax 616 791 9263								
Contact Person Bryan Rose												
Item No	Lab I.D.	Client Sample Number	Date Taken	Time Taken	Sample Description (sample type: water, soil, other)	Number of Containers	Remarks					
1		EC-SW	3/24	1400	Water	3	X	X	X	X		
2												
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Released by 			Received by Todd A. Weir			Date 3/24	Time 1450	Laboratory use only <input checked="" type="checkbox"/> Blue Ice ____° <input type="checkbox"/> Regular Ice <input type="checkbox"/> No Coolant Prep 064				
Todd A. Weir			Cindy Eusemia			3/24/11	3:25					

BIO-CHEM Laboratories, Inc.

Date: 28-Mar-11

CLIENT: Rose & Westra Inc
Project: 0003.02990.0
Lab Order: 1103129

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Matrix	Collection Date	Date Received
1103129-01A	FC-SW	Aqueous	3/24/2011	3/24/2011

BIO-CHEM Laboratories, Inc.

Date: 28-Mar-11

CLIENT: Rose & Westra Inc
Project: 0003.02990.0
Lab Order: 1103129

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Date: 3/28/2011

ANALYTICAL REPORT

CLIENT: Rose & Westra Inc

Project Number: 0003.02990.0

Lab Order: 1103129

Client Sample ID: FC-SW

Project: 0003.02990.0

Collection Date: 3/24/2011

Lab Sample ID: 1103129-01A

Matrix: AQUEOUS

Analyses	Method Ref.	Result	Q	PQL	Units	DF	Analyst	Date
Total Metal(s) by ICP								
1. Chromium	SW6010B	< 10		10	µg/L	1	RHS	3/25/2011
Ammonia Nitrogen								
1. Nitrogen, Ammonia (As N)	E350.3	0.89		0.050	mg/L	2	KLM	3/28/2011
Chemical Oxygen Demand								
1. Chemical Oxygen Demand	SM5220D	28		5.0	mg/L	1	KLM	3/25/2011
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1. Suspended Solids (Residue, Non-Filterable)	E160.2	34		1.0	mg/L	1	KLM	3/25/2011

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Project: 0003.02990.0

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Sample ID	Client Sample ID	Matrix	Test Name	Date Sampled	TCLP/SPLP Date	Prep Date	QC Batch	Analysis Date	Analytical Batch
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	FC-SW	Aqueous	Chemical Oxygen Demand	3/24/2011			R68224	3/25/2011	SPEC_A_110325B
	FC-SW	Aqueous	Suspended Solids (Gravimetric)	3/24/2011			R68222	3/25/2011	GRAVIMETRIC_110325A
	FC-SW	Aqueous	Total Metal(s) by ICP	3/24/2011		3/24/2011	31712	3/25/2011	MTL_G_ICP_110325A